



Student Datasheet

Name: _____

Date: _____

Scientists Monthly Mix-Up Datasheet

Scenario: Please Help! A solar flare has interrupted satellite transmission and as a result, NASA scientists received partial information of snow and ice. NASA engineers and scientists had to turn off the instruments on the satellites before they could finish receiving all the data. We need your help to review these map visualizations to identify if sufficient data was received to identify which Snow and Ice Map visualizations represents the months of January, March, and June. You will use the snow and ice values on each map, your keen observation and inference skills, and knowledge about the seasons to solve this problem. The scientists need an explanation for each month so they have evidence of your claim”.

Observe the snow and ice amount on the maps. Complete the chart below. Under Evidence, write your observations. Include longitude and latitude of key locations and amounts of snow and ice. In the Claims section, match the maps with the months: January, March, or June.

| Model Example | |
|---------------|--------|
| Evidence: | Claim: |

| | | |
|------------------|-----------|--------|
| M A P 1 | Evidence: | Claim: |
| M A P 2 | Evidence: | Claim: |
| M A P 3 | Evidence: | Claim: |

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Our Investigation!

1. What is the Monthly Leaf Area Index?

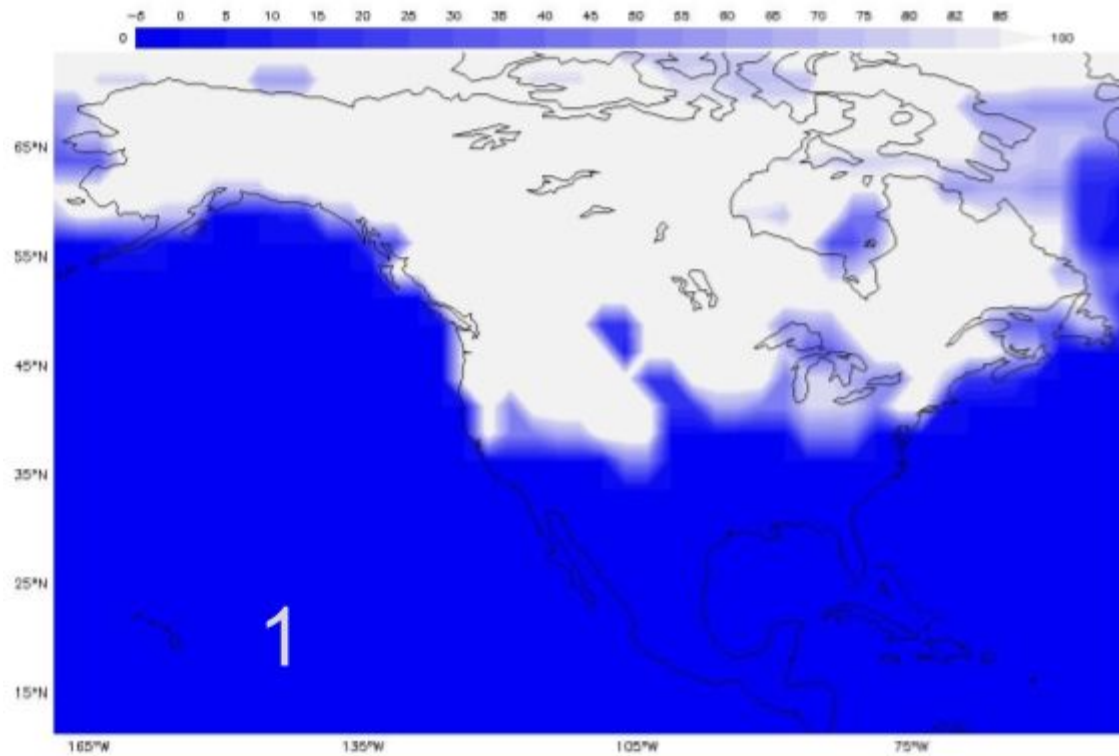
Observe the Monthly Leaf Area Index on the maps. Complete the chart below. Under Evidence, write your observations. Include longitude and latitude of key locations and amounts of leaf area or canopy cover. In the Claims section, match the maps with the months: January, March, or June.

| | | |
|----------------------------|-----------|--------|
| M A p 1 | Evidence: | Claim: |
| M A p 2 | Evidence: | Claim: |
| M A p 3 | Evidence: | Claim: |

1. Compare and contrast the maps for snow/ice and leaf area. Explain what you noticed.
2. Based on your observations, predict other events that may help tell what season it is and explain.

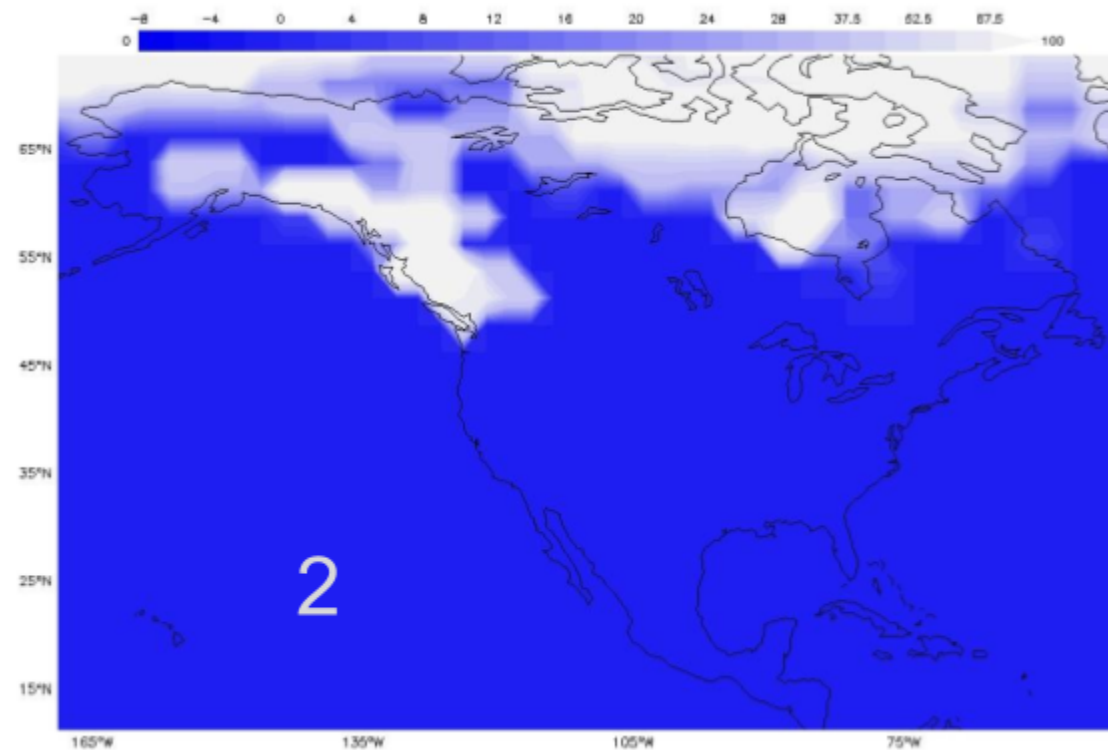
Data Visualization
Snow/Ice Amount (percent)

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Data Visualization
Snow/Ice Amount (percent)

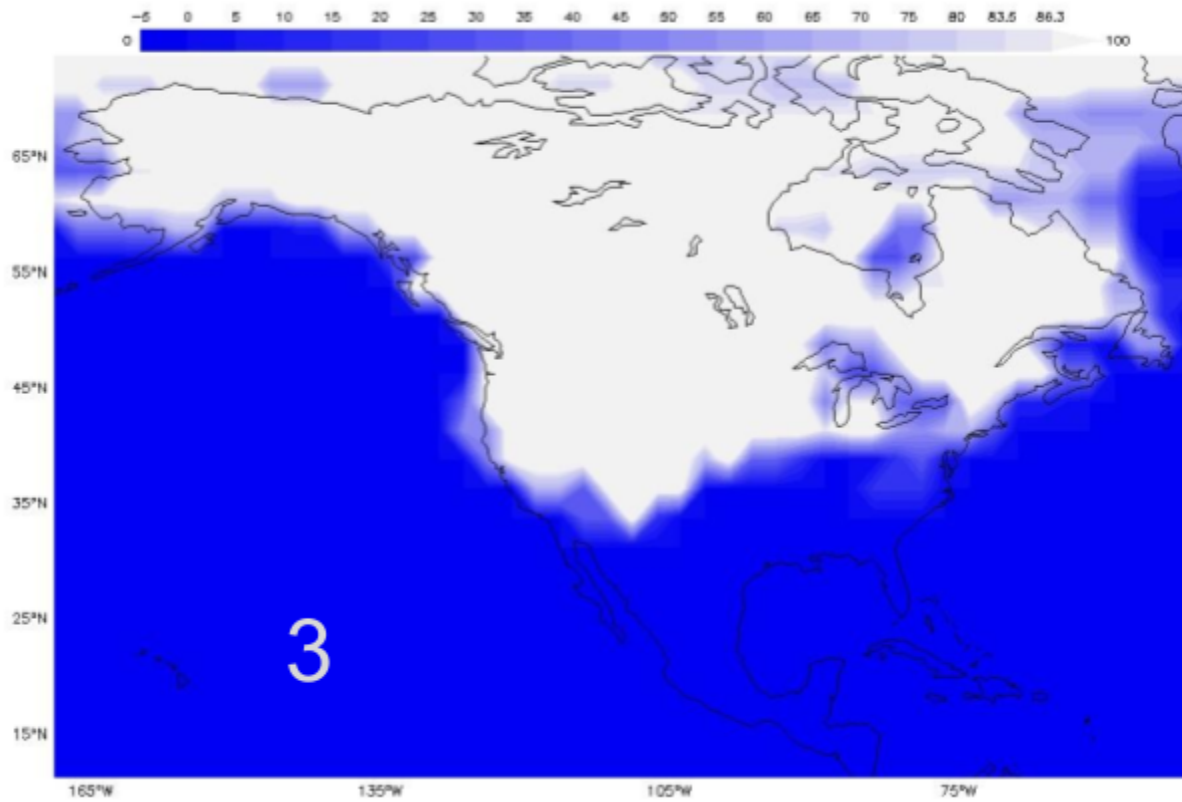
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Data Visualization

Snow/Ice Amount (percent)

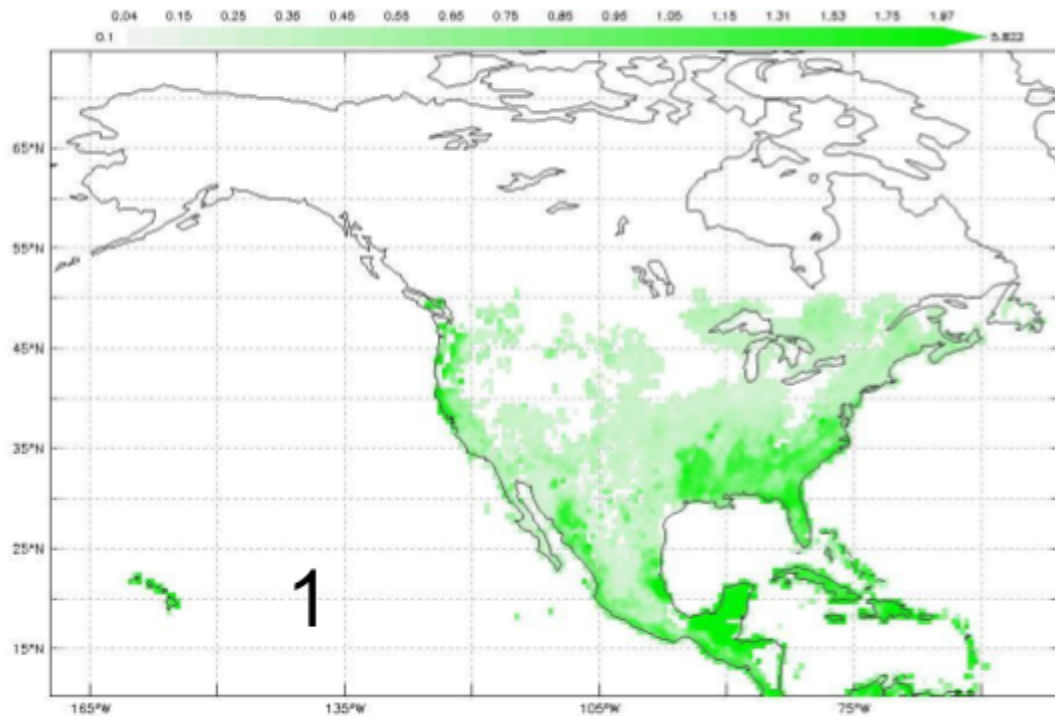
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Data Visualization

Monthly Leaf Area Index

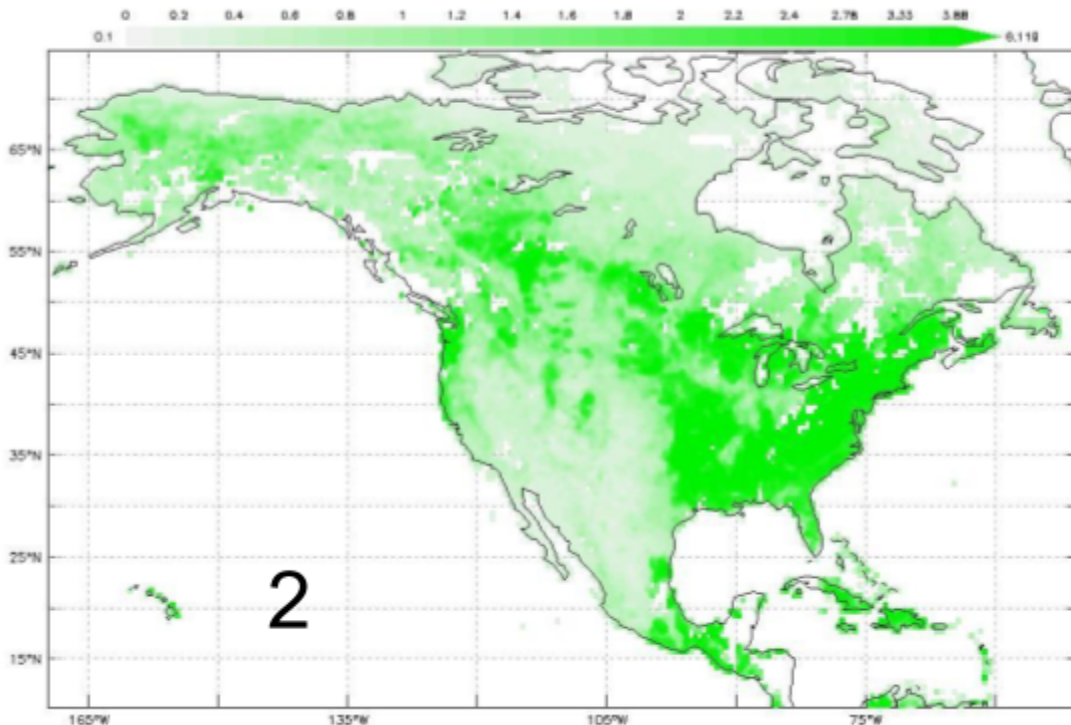
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Data Visualization

Monthly Leaf Area Index

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Data Visualization

Monthly Leaf Area Index

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